

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

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of

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**Complete if Known**

<b>Application Number</b>	10/544,146
<b>Filing Date</b>	May 5, 2006
<b>First Named Inventor</b>	Shyam S. Mohapatra
<b>Art Unit</b>	1635
<b>Examiner Name</b>	Richard A. Schnizer
<b>Attorney Docket Number</b>	USF.T193XC1

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U1	US-2004/0002458 A1	01-01-2004	Seilhamer <i>et al.</i>	All
	U2	US-2005/0266093 A1	12-01-2005	Mohapatra	All
	U3	US-2005/0272650 A1	12-08-2005	Mohapatra	All
	U4	US-2006/0276382 A1	12-07-2006	Mohapatra	All
	U5	US-2007/0265204 A1	11-15-2007	Mohapatra <i>et al.</i>	All
	U6	US-2007/0116767 A1	05-24-2007	Mohapatra	All
	U7	US-2007/0009951 A1	01-11-2007	Mohapatra <i>et al.</i>	All
	U8	US-2008/0023325 A1	01-31-2008	Mohapatra <i>et al.</i>	All

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	F1	WO 2003/028759 A1	04-10-2003	University of South Florida <i>et al.</i>	All	
	F2	WO 2003/070918 A2	08-28-2003	Ribozyme Pharmaceuticals, Incorporated	All	
	F3	WO 2003/092618 A2	11-13-2003	University of South Florida	All	
	F4	WO 2004/074314 A2	08-02-2004	University of South Florida	All	
	F5	WO 2004/076664 A2	09-10-2004	University of South Florida	All	
	F6	WO 2005/094420 A2	10-13-2005	University of South Florida	All	
	F7	WO 2005/105136 A1	11-10-2005	University of South Florida	All	

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	U9	US-2008/0070858 A1	03-20-2008	Mohapatra	All
	U10	US-2008/0075731 A1	03-27-2008	Mohapatra et al.	All
	U11	US-2008/0100279 A1	05-01-2008	Mohapatra et al.	All
	U12	US-5,931,069	11-03-1998	Barik	All
	U13	US-5,998,602	12-07-1999	Torrence et al.	All
	U14	US-6,489,306	12-03-2002	Mohapatra et al.	All
	U15	US-6,900,299	05-31-2005	Mohapatra et al.	All
	U16	US-7,118,888	10-10-2006	Mohapatra et al.	All
	U17	US-2001/0006951 A1	07-05-2001	Mohapatra et al.	All
	U18	US-2008/0249057 A1	10-09-2008	Mohapatra et al.	All
	U19	US-5,290,540	03-01-1994	Prince et al.	All
	U20	US-5,693,532	12-02-1997	McSwiggen et al.	All
	U21	US-6,586,579	06-01-2003	Huang et al.	All
	U22	US-7,354,908	04-08-2008	Mohapatra et al.	All

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	F8	WO 2007/127480 A2	11-08-2007	University of South Florida	All	
	F9	WO 2007/127487 A2	11-03-2007	University of South Florida	All	
	F10					
	F11					
	F12					

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First Named Inventor	Shyam S. Mohapatra
Group Art Unit	1635
Examiner Name	Richard A. Schnizer
Attorney Docket Number	USF T193XC1

**NON PATENT LITERATURE DOCUMENTS**

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	R1	BEHERA, A.K. <i>et al.</i> "Adenovirus-Mediated Interferon $\gamma$ Gene Therapy for Allergic Asthma: Involvement of Interleukin 12 and STAT4 Signaling" <i>Human Gene Therapy</i> , September 2002, 13:1697-1709.	
	R2	BEHERA, A.K. <i>et al.</i> "2'-5' Oligoadenylate Synthetase Plays a Critical Role in Interferon- $\gamma$ Inhibition of Respiratory Syncytial Virus Infection of Human Epithelial Cells" <i>The Journal of Biological Chemistry</i> , July 2002, 277(28):25601-25608.	
	R3	BITKO, V. <i>et al.</i> "Phenotypic silencing of cytoplasmic genes using sequence-specific double-stranded short interfering RNA and its application in the reverse genetics of wild type negative-strand RNA viruses" <i>BMC Microbiology</i> , 2001, 1(34):1-11.	
	R4	BOSSERT, B. <i>et al.</i> "Respiratory Syncytial Virus (RSV) Nonstructural (NS) Proteins as Host Range Determinants: a Chimeric Bovine RSV with NS Genes from Human RSV IS Attenuated in Interferon-Competent Bovine Cells" <i>Journal of Virology</i> , May 2002, 76(9):4287-4293.	
	R5	BOSSERT, B. <i>et al.</i> "Nonstructural Proteins NS1 and NS2 of Bovine Respiratory Syncytial Virus Block Activation of Interferon Regulatory Factor 3" <i>Journal of Virology</i> , August 2003, 77(16):8661-8668.	
	R6	DORN, G. <i>et al.</i> "siRNA relieves chronic neuropathic pain" <i>Nucleic Acids Research</i> , 2004, 32(5):e49.	
	R7	HALLAK, L.K. <i>et al.</i> "Iduronic Acid-Containing Glycosaminoglycans on Target Cells Are Required for Efficient Respiratory Syncytial Virus Infection" <i>Virology</i> , 2000, 271:264-275.	
	R8	HELLERMAN, G.R. <i>et al.</i> "Genetic therapy: on the brink of a new future" <i>Genetic Vaccines and Therapy</i> , 2003, 1(1):1-2.	
	R9	JAIRATH, S. <i>et al.</i> "Inhibition of respiratory syncytial virus replication by antisense oligodeoxynucleotides" <i>Antiviral Research</i> , 1997, 33:201-213.	
	R10	JIN, H. <i>et al.</i> "Recombinant Respiratory Syncytial Viruses with Deletions in the NS1, NS2, SH, and M2-2 Genes are Attenuated <i>In Vitro</i> and <i>In Vivo</i> " <i>Virology</i> , 2000, 273:210-218.	
	R11	KUMAR, M. <i>et al.</i> "Intranasal IFN- $\gamma$ gene transfer protects BALB/c mice against respiratory syncytial virus infection" <i>Vaccine</i> , 2000; 18:558-567.	
	R12	KUMAR, M. <i>et al.</i> "Intranasal Gene Transfer by Chitosan-DNA Nanospheres Protects BALB/c Mice Against Acute Respiratory Syncytial Virus Infection" <i>Human Gene Therapy</i> , August 2002, 13:1415-1425.	
	R13	KUMAR, M. <i>et al.</i> "Chitosan IFN- $\gamma$ -pDNA Nanoparticle (CIN) Therapy for Allergic Asthma" <i>Genetic Vaccines and Therapy</i> , 2003, 1(3):1-10.	

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**NON PATENT LITERATURE DOCUMENTS**

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	R14	LEAMAN, D.W. <i>et al.</i> "Targeted Therapy of Respiratory Syncytial Virus in African Green Monkeys by Intranasally Administered 2-5A Antisense" <i>Virology</i> , 2002, 292:70-77.	
	R15	MATSUO, H. <i>et al.</i> "Recurrent Respiratory Syncytial Virus Infections in Allergen-Sensitized Mice Lead to Persistent Airway Inflammation and Hyperresponsiveness" <i>The Journal of Immunology</i> , 2000, 164:6583-6592.	
	R16	MOHAPATRA, S. "Mucosal gene expression vaccine: a novel vaccine strategy for respiratory syncytial virus" <i>The Pediatric Infectious Disease Journal</i> , February 2003, 22(2):S100-S104.	
	R17	MURPHY, B.R. "Live-attenuated virus vaccines for respiratory syncytial and parainfluenza viruses: applications of reverse genetics" <i>The Journal of Clinical Investigation</i> , July 2002, 110(1):21-27.	
	R18	LAZAR, I. <i>et al.</i> "Human Metapneumovirus and Severity of Respiratory Syncytial Virus Disease" <i>Emerging Infectious Diseases</i> , July 2004, 10(7):1318-1320, NCBI accession no. M74568.	
	R19	DEPLANCHE, M. <i>et al.</i> "In vivo evidence for quasispecies distributions in the bovine respiratory syncytial virus genome" <i>Journal of General Virology</i> , 2007, 88:1260-1265, NCBI accession no. NC_001989.	
	R20	PAN, W. <i>et al.</i> "Isolation of virus-neutralizing RNAs from a large pool of random sequences" <i>Proc. Natl. Acad. Sci. USA</i> , December 1995, 92:11509-11513.	
	R21	SCHLENDER, J. <i>et al.</i> "Bovine Respiratory Syncytial Virus Nonstructural Proteins NS1 and NS2 Cooperatively Antagonize Alpha/Beta Interferon-Induced Antiviral Response" <i>Journal of Virology</i> , 2000, September 2000, 74(18):8234-8242.	
	R22	SOUTSCHEK, J. <i>et al.</i> "Therapeutic silencing of an endogenous gene by systemic administration of modified siRNAs" <i>Nature</i> , November 2004, 432:173-178.	
	R23	SPANN, K.M. <i>et al.</i> "Suppression of the Induction of Alpha, Beta, and Gamma Interferons by the NS1 and NS2 Proteins of Human Respiratory Syncytial Virus in Human Epithelial Cells and Macrophages" <i>Journal of Virology</i> , April 2004, 78(8):4363-4369.	
	R24	STEIN, C.A. "The experimental use of antisense oligonucleotides: a guide for the perplexed" <i>The Journal of Clinical Investigation</i> , 2001, 108:641-644.	
	R25	TENG, M.N. <i>et al.</i> "Altered Growth Characteristics of Recombinant Respiratory Syncytial Viruses Which Do Not Produce NS2 Protein" <i>Journal of Virology</i> , January 1999, 73(1):466-473.	
	R26	TENG, M.N. <i>et al.</i> "Recombinant Respiratory Syncytial Virus That Does Not Express the NS1 or M2-2 Protein Is Highly Attenuated and Immunogenic in Chimpanzees" <i>Journal of Virology</i> , October 2000, 74(19):9317-9321.	

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	R27	ZHANG, W. <i>et al.</i> "Attenuation of dengue virus infection by adeno-associated virus-mediated siRNA delivery" <i>Genetic Vaccines and Therapy</i> , 2004, 2(8):1-10.	
	R28	ZHANG, X. <i>et al.</i> "Small Interfering RNA Targeting Heme Oxygenase-1 Enhances Ischemia-Reperfusion-induced Lung Apoptosis" <i>The Journal of Biological Chemistry</i> , March 2004, 279(11):10677-10684.	
	R29	ZHAO, C.A. <i>et al.</i> "Inhibition of respiratory syncytial virus replication in cultured cells by RNA-cleaving DNase" <i>Chinese Journal of Pediatrics</i> , 2003, 41(8): 594-597, Medline XP002513933 Database accession No. NLM14744382.	
	R30	REICH, S.J. <i>et al.</i> "Small interfering RNA (siRNA) targeting VEGF effectively inhibits ocular neovascularization in a mouse model" <i>Molecular Vision</i> , 2003, 9:210-216.	
	R31	SUBRAMANYA, S. <i>et al.</i> "Targeted Delivery of Small Interfering RNA to Human Dendritic Cells to Suppress Dengue Virus Infection and Associated Proinflammatory Cytokine Production" <i>Journal of Virology</i> , March 2010, 84(5):2490-2501.	
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